

Mandan Flood Protection Project

Interim House Appropriations Committee
October 12, 2021

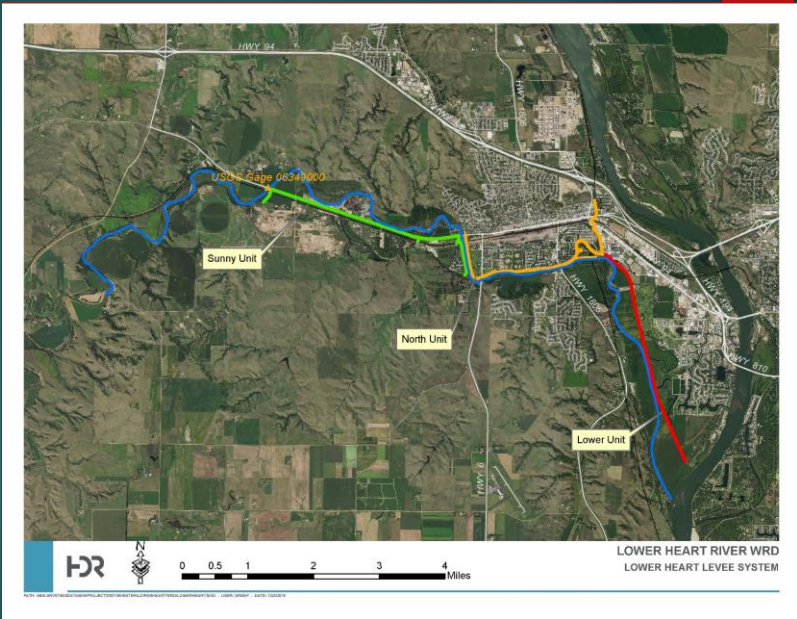
LOWER HEART RIVER WATER RESOURCE DISTRICT AND CITY OF MANDAN



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Lower Heart Levee System Background

- Installed by USACE, Managed by Lower Heart WRD
- North (Mandan) Unit completed in 1949
- Lower and Sunny Units completed in 1959
- Provided flood protection during numerous flood events: 1950, 1952, 1997, 2009, 2019, and many more.



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Lower Heart Levee Recertification

- Undergoing a FEMA re-certification process.
- 2012 FEMA study suggested significant portions have freeboard deficiencies.
- Geotechnical and internal drainage deficiencies are also present.
- Flood insurance economic impact is estimated at \$9.6M annually.
- North (Mandan) and Lower Units Protect over 4,100 homes and businesses estimated at a value of \$900 Million.

LOWER HEART RIVER WRD
LEVEE PROTECTED AREA

Lower Heart Water Resource District

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Mandan Flood Risk Reduction Project

Recertification Projects

- Floodwall replacement.**
- Levee raise and stability berm.
- Seepage remediation.
- Localized levee raises.
- Interior drainage improvements.

CITY OF MANDAN AND LOWER HEART RIVER WRD
LOWER HEART LEVEE SYSTEM

Lower Heart Water Resource District

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Mandan Flood Risk Reduction Project

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LOWER HEART LEVEE SYSTEM
MARCH, 2020

Lower Heart Water Resource District

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Mandan Flood Risk Reduction Project

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LOWER HEART LEVEE SYSTEM
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Mandan Flood Risk Reduction Project

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Mandan Flood Risk Reduction Project

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LOWER HEART LEVEE SYSTEM

MARCH, 2020

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Mandan Flood Risk Reduction Project

Funding Received from State to Date:



- **2019-2021 Biennium:**
 - **\$1.2 Million**
 - Lower and Mandan Unit Remediation
 - Includes Eligible Design Services

Local Funding to date:

- **2019-2021 Biennium:**
 - **\$1.0 Million**
 - Lower and Mandan Unit Remediation
 - Includes Eligible Design Services and Assessment District Establishment



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Mandan Flood Risk Reduction Project

Future Funding Required:

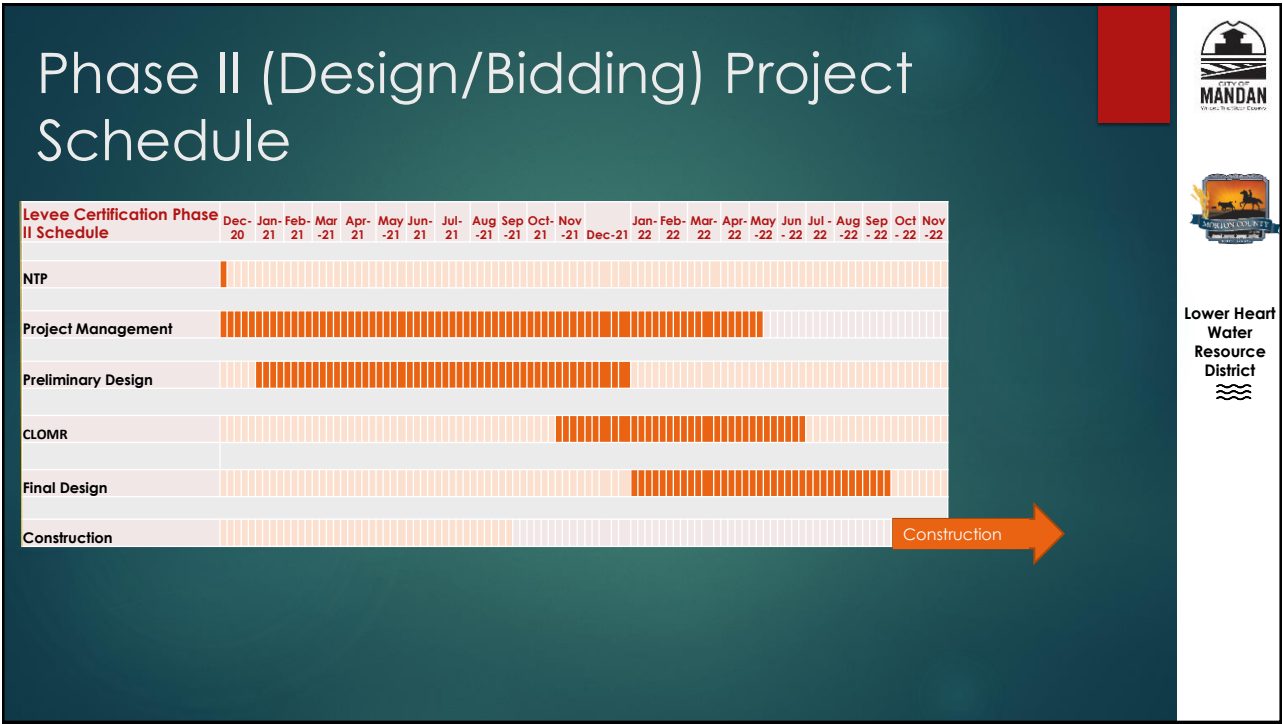
- **\$18 Million**
 - Lower and Mandan Unit Remediation
 - Eligible Construction, Construction Administration, and ROW Acquisitions
- **Funding Sources:**
 - State Water Commission
 - Local (Assessment)
 - FEMA (potential)



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Questions

DS of Trolley Bridge, Mar. 26, 2019 – NDDWR Drone Flight

Trolley Bridge, Mar. 26, 2019 – NDDWR Drone

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